REMOTE AREA

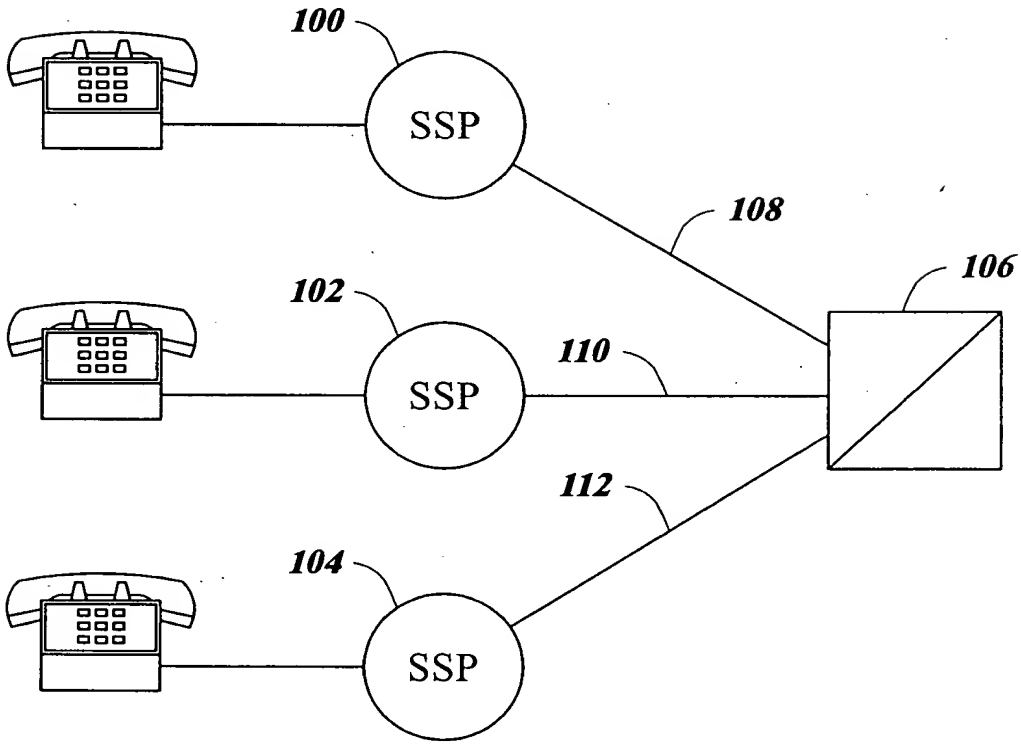


FIG. 1

(PRIOR ART)

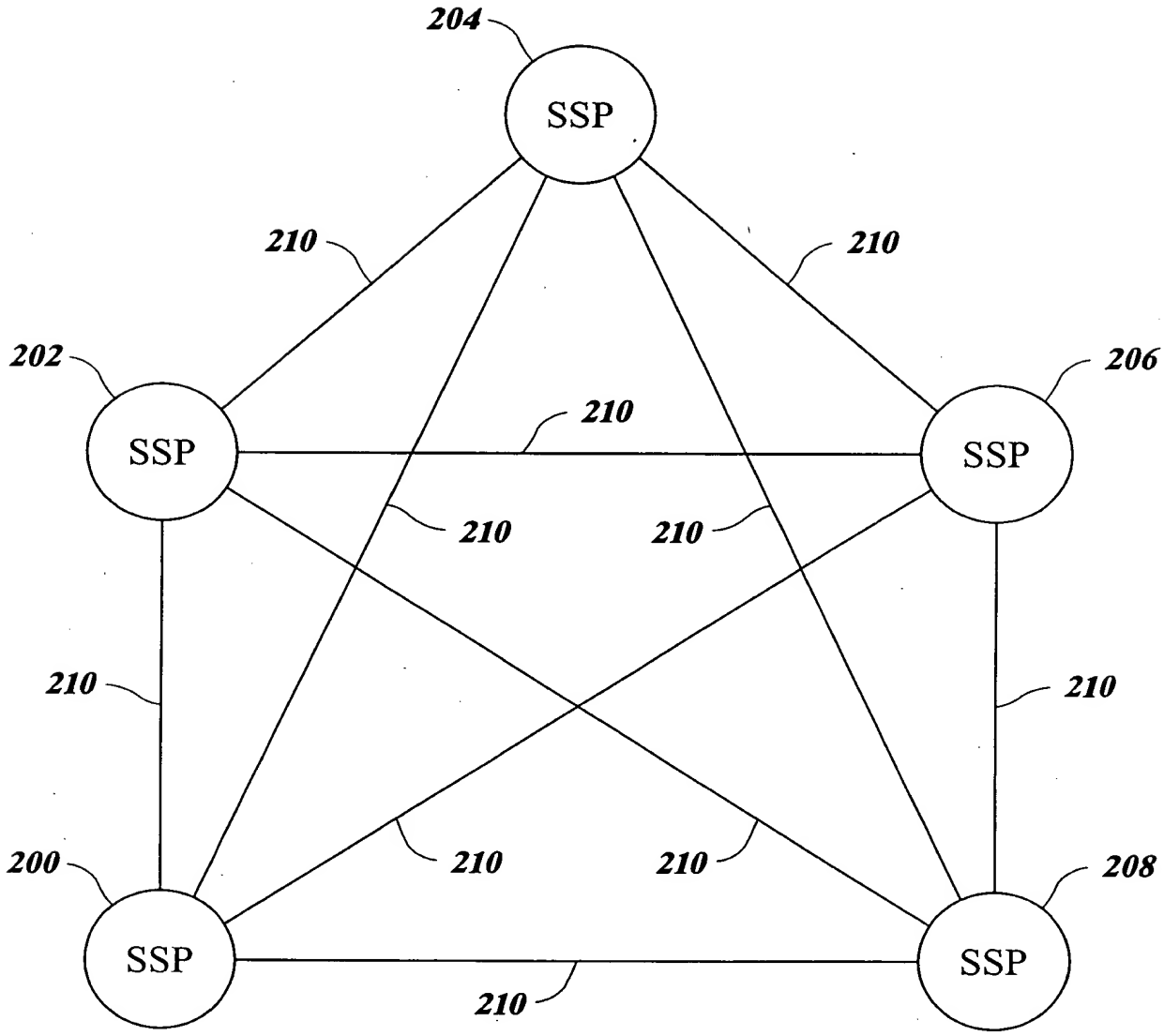


FIG. 2

(PRIOR ART)

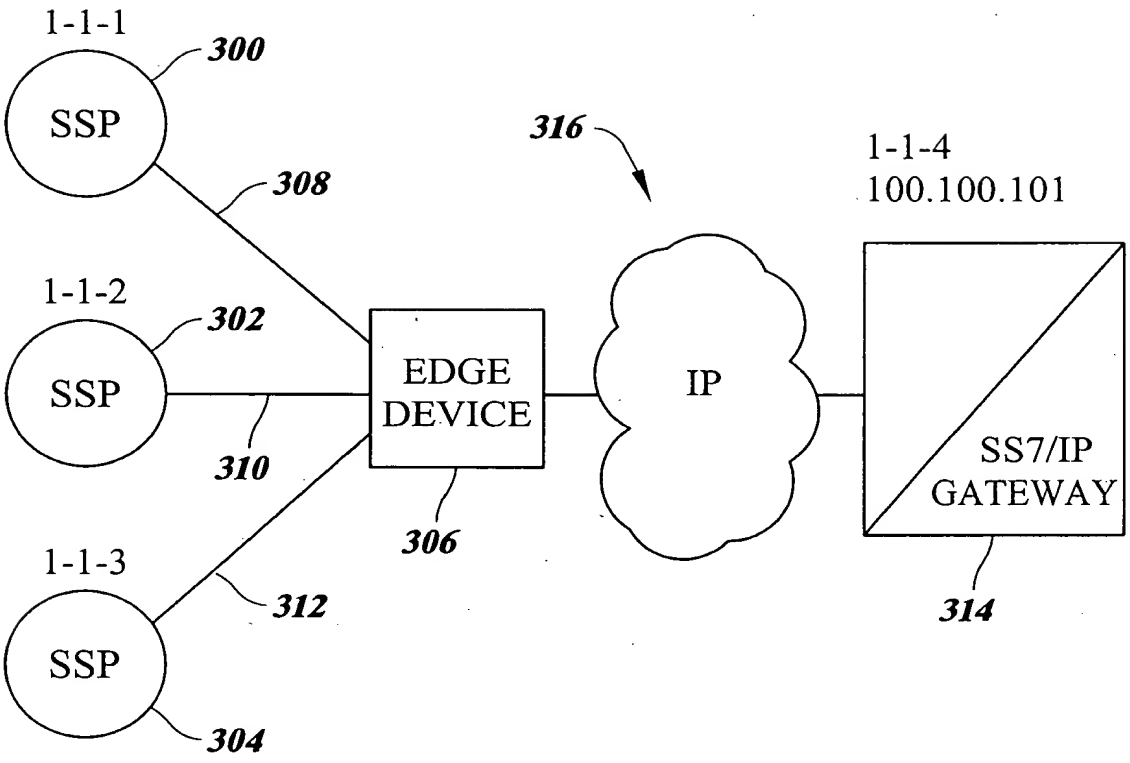

1-1-1
300
SSP
308
316
1-1-4
100.100.101
1-1-2
302
SSP
EDGE
DEVICE
IP
SS7/IP
GATEWAY
310
306
1-1-3
312
SSP
304
314

FIG. 3

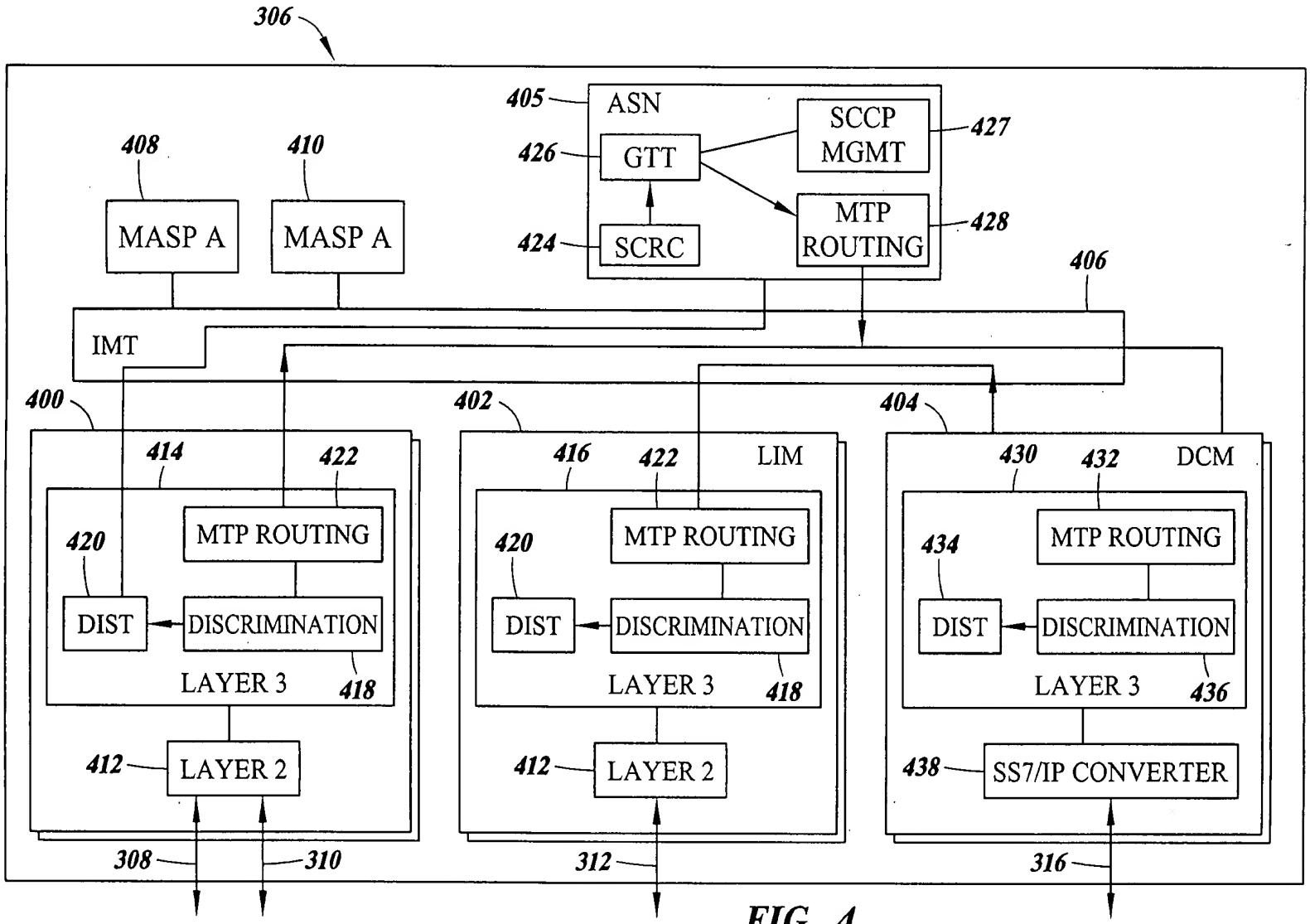

306
405
ASN
SCCP MGMT
427
426
GTT
MTP ROUTING
428
424
SCRC
408
410
MASP A
MASP A
406
IMT
400
402
404
414
422
416
422
LIM
430
432
DCM
MTP ROUTING
MTP ROUTING
MTP ROUTING
420
420
434
DIST
DISCRIMINATION
DIST
DISCRIMINATION
DIST
DISCRIMINATION
LAYER 3
418
LAYER 3
418
LAYER 3
436
412
LAYER 2
412
LAYER 2
438
SS7/IP CONVERTER
308
310
312
316

FIG. 4

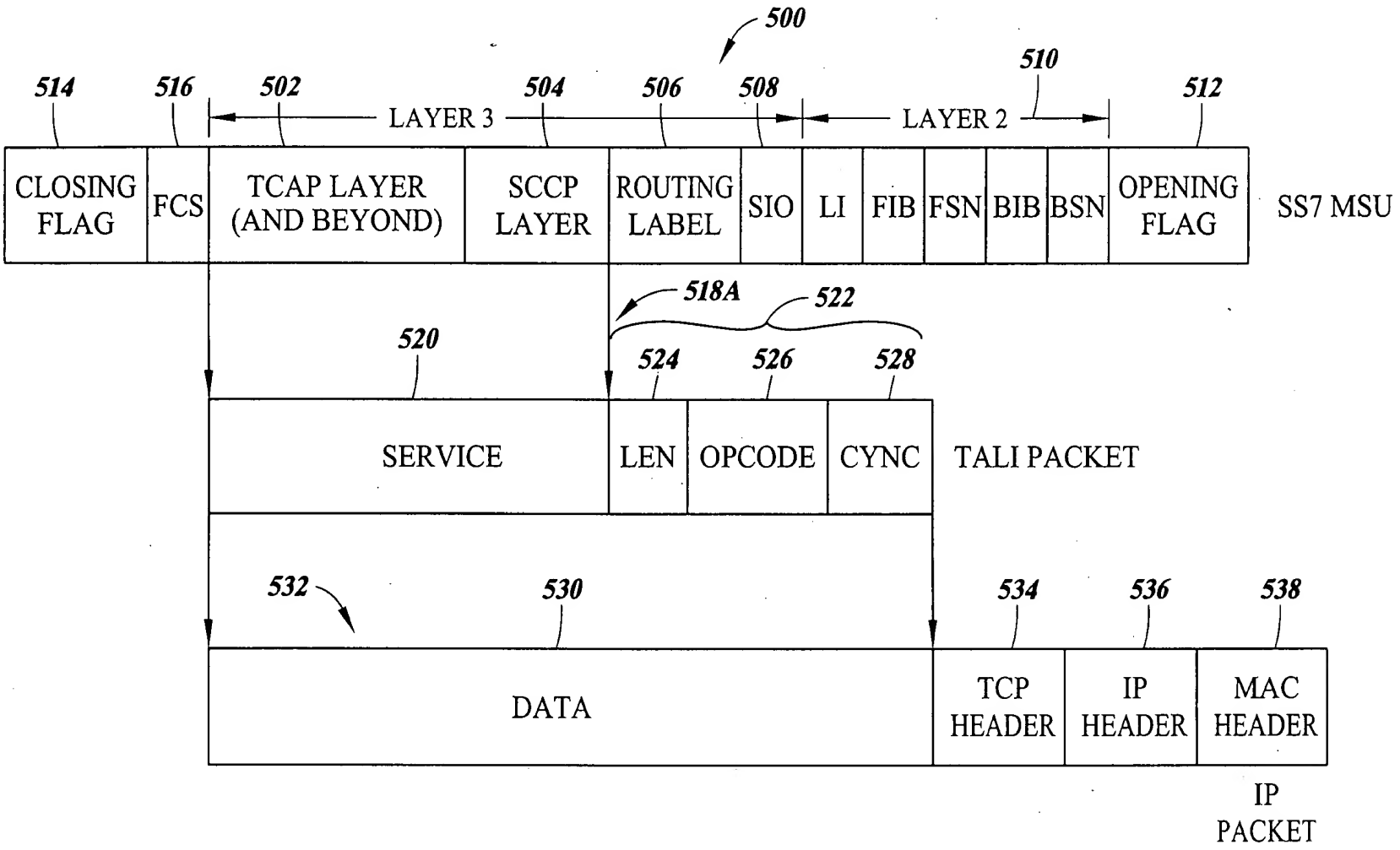

500
514
516
502
504
506
508
510
512
LAYER 3
LAYER 2
CLOSING FLAG
FCS
TCAP LAYER (AND BEYOND)
SCCP LAYER
ROUTING LABEL
SIO
LI
FIB
FSN
BIB
BSN
OPENING FLAG
SS7 MSU
518A
522
520
524
526
528
SERVICE
LEN
OPCODE
CYNC
TALI PACKET
532
530
534
536
538
DATA
TCP HEADER
IP HEADER
MAC HEADER
IP PACKET

FIG. 5(a)

0020402 "5847560

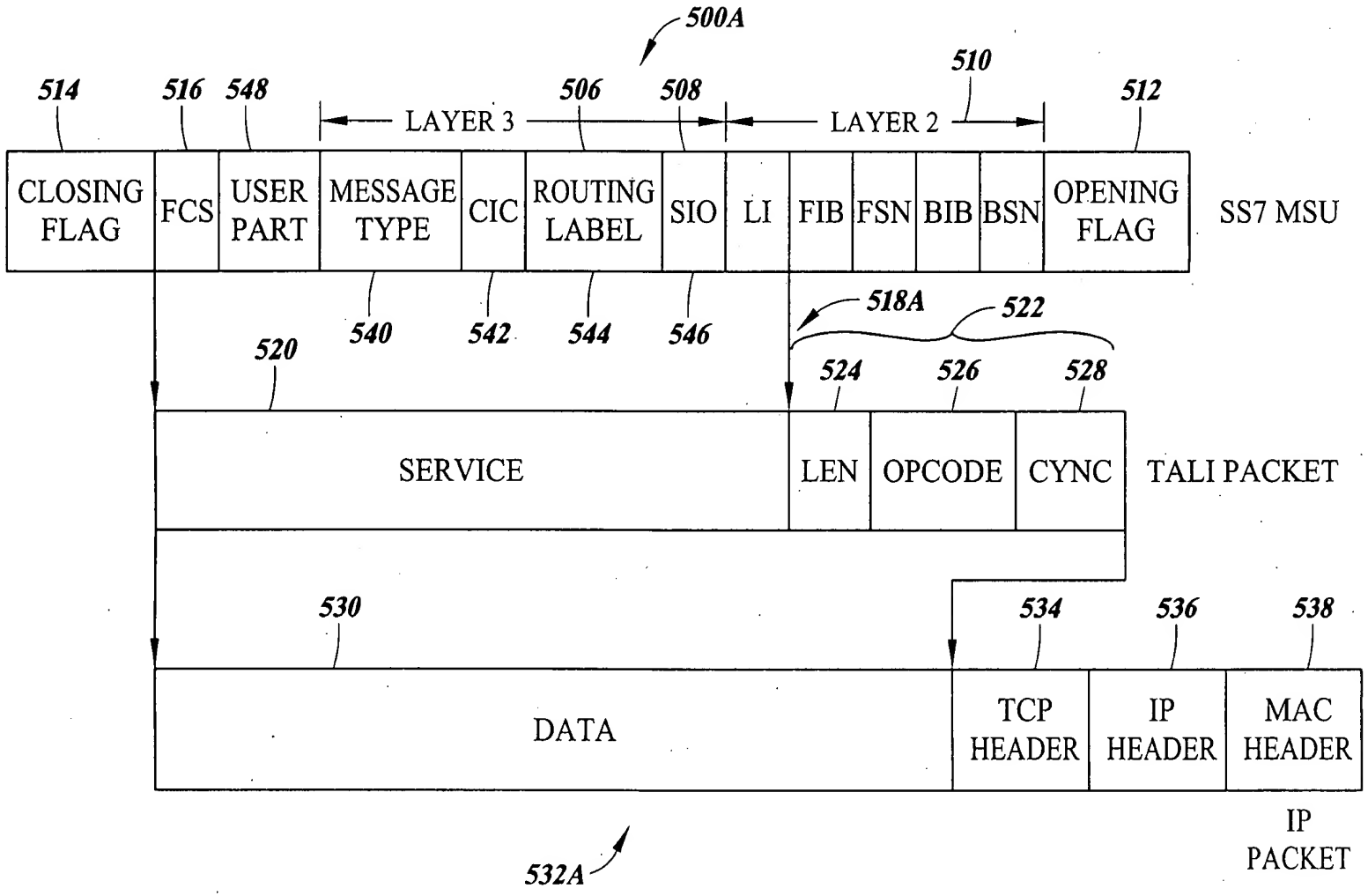


FIG. 5(b)

0E0H0"E98T+SE0

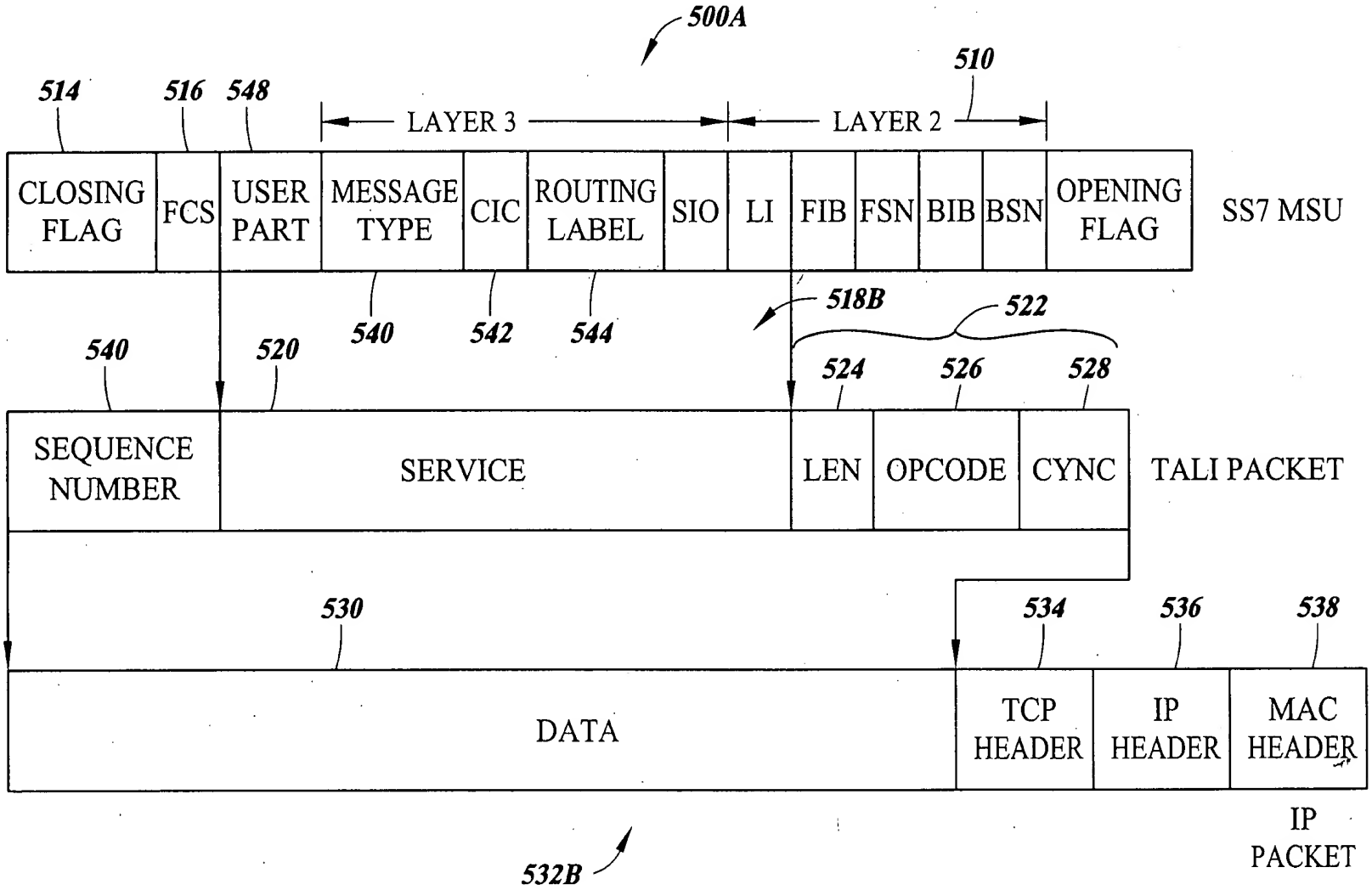
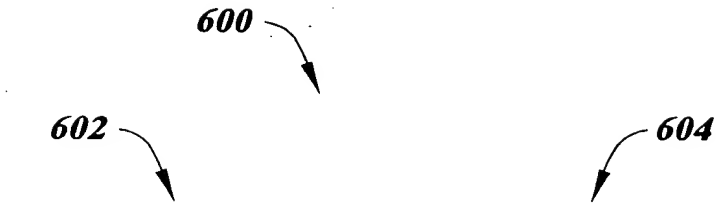


FIG. 5(c)



POINT CODE	INTERNAL LINKSET ADDRESS
1-1-1	LINKSET #1 ON LIM 400
1-1-2	LINKSET #2 ON LIM 400
1-1-3	LINKSET #1 ON LIM 402
DEFAULT	DCM 404

FIG. 6(a)

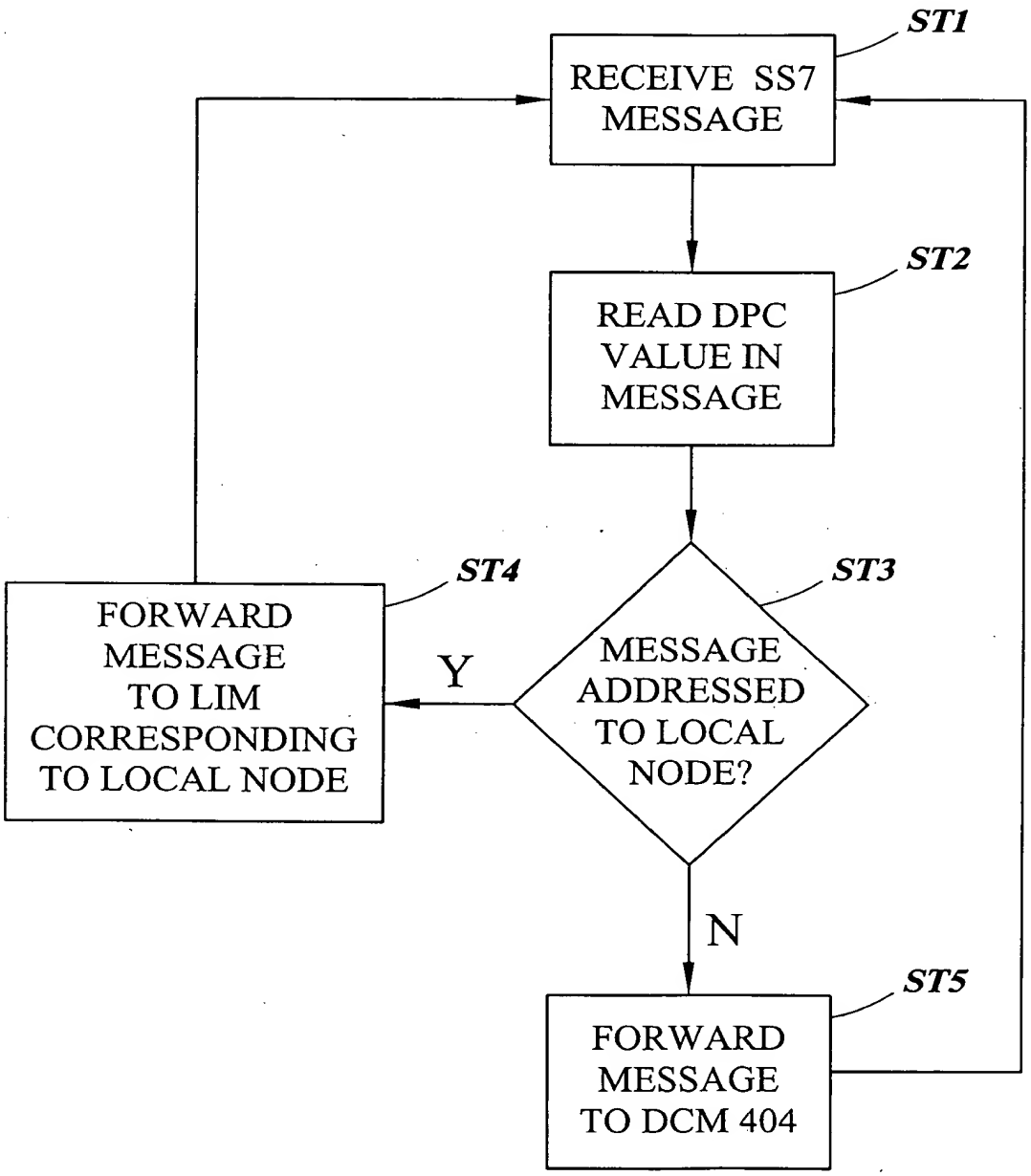

ST1
RECEIVE SS7 MESSAGE
ST2
READ DPC VALUE IN MESSAGE
ST3
MESSAGE ADDRESSED TO LOCAL NODE?
Y
ST4
FORWARD MESSAGE TO LIM CORRESPONDING TO LOCAL NODE
N
ST5
FORWARD MESSAGE TO DCM 404

FIG. 6(b)

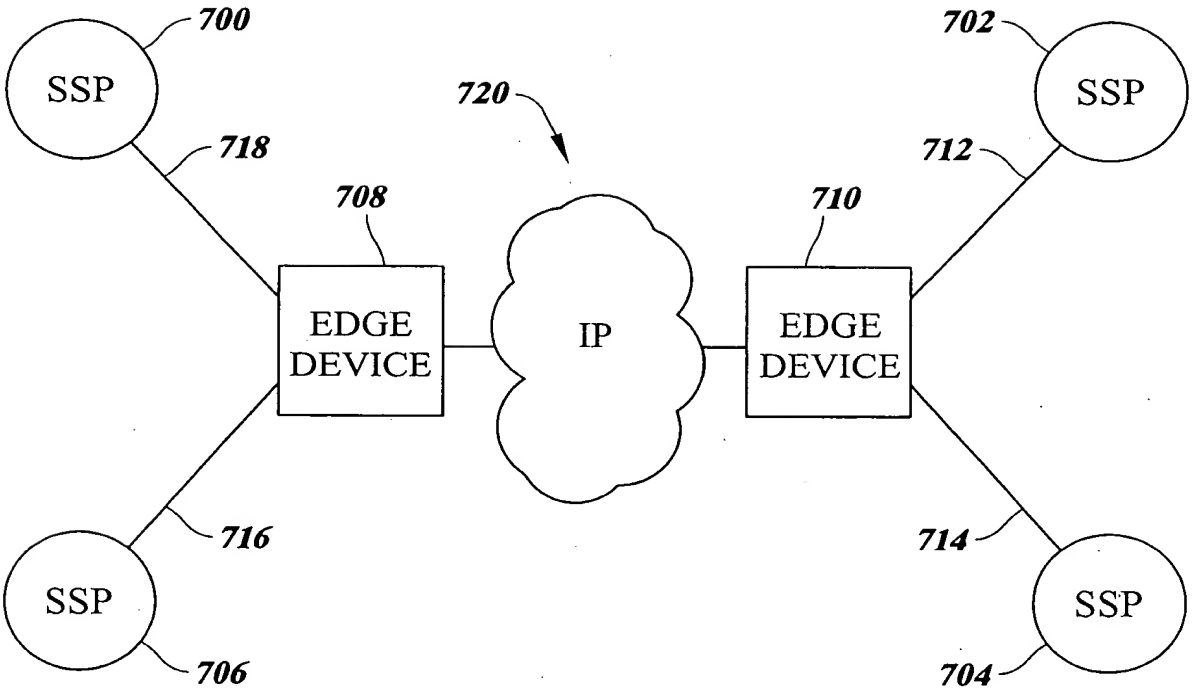

700
SSP
718
708
EDGE DEVICE
716
SSP
706
720
IP
702
SSP
712
710
EDGE DEVICE
714
SSP
704

FIG. 7

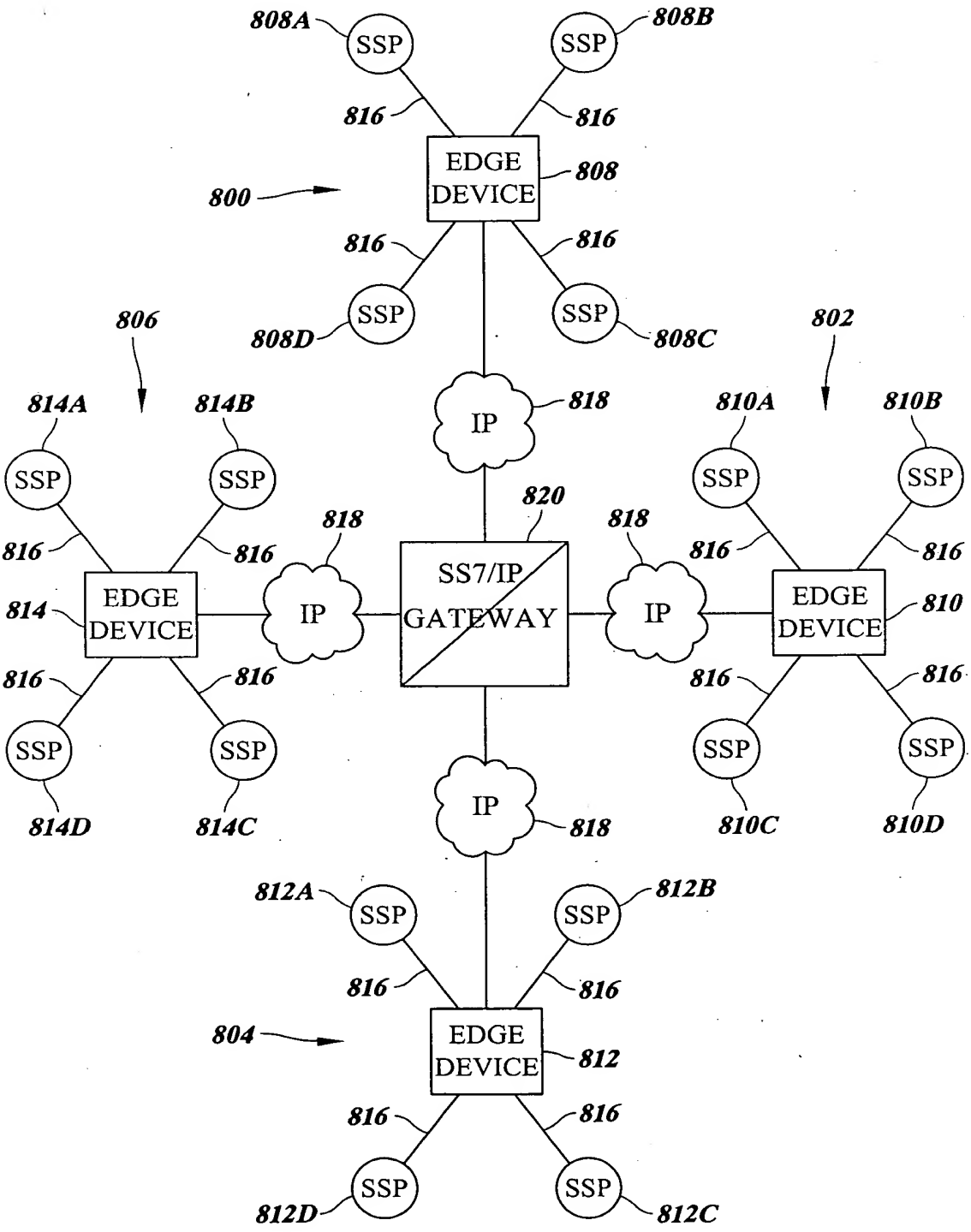

808A
SSP
808B
SSP
816
816
EDGE DEVICE
808
800
816
816
808D
SSP
SSP
808C
806
802
814A
814B
IP
818
810A
810B
SSP
SSP
SSP
SSP
820
818
818
816
816
816
816
EDGE DEVICE
814
IP
SS7/IP GATEWAY
IP
EDGE DEVICE
810
816
816
816
816
SSP
SSP
SSP
SSP
IP
818
814D
814C
810C
810D
812A
812B
SSP
SSP
816
816
804
EDGE DEVICE
812
816
816
812D
SSP
SSP
812C

FIG. 8

09544952 "050500

900

902 904

POINT CODE	INTERNAL LINKSET ADDRESS
1-1-1	LINKSET ADDRESS FOR SSP 814A
1-1-2	LINKSET ADDRESS FOR SSP 814B
1-1-3	LINKSET ADDRESS FOR SSP 814C
1-1-4	LINKSET ADDRESS FOR SSP 814D
DEFAULT	DCM ADDRESS FOR SS7/IP GATEWAY STP 820

FIG. 9